

THE CLAIMS ARE ATTACHED AS AN APPENDIX BELOW FOR THE EXAMINER'S CONVENIENCE.

13. (Once Amended) An arrangement for directly controlling the movement of a zoom system in a stereo microscope, comprising:

direct driving motors for at least one moving lens system wherein the driving motors are controlled by a control unit which reads calculated pre-stored values of reference points from a mathematical controlling curve for directing the movement of the at least one moving lens system by controlling the driving motors in a corresponding manner without necessitating use of mechanical generation of the mathematical controlling curve and without an additional monitoring system.

14. (Once Amended) The arrangement according to claim 13 with two lens members which are controlled independently from one another.

15. The arrangement according to claim 13, wherein lens members are provided as lens pairs in a Greenough type stereo microscope or telescope type stereo microscope.

17. (Once Amended) The arrangement according to claim 13, wherein the driving motors are linear drives.

18. The arrangement according to claim 17, wherein the linear drives are arranged in the stereo microscope housing.

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19. (Once Amended) The arrangement according to claim 18, wherein the driving motors are arranged between lens pairs.

20. The arrangement according to claim 13, wherein a plurality of moving lens members are controlled jointly.

21. The arrangement according to claim 13, wherein at least two lens members are driven separately.

22. (Once Amended) The arrangement according to claim 13, wherein a linear magnification that is adjusted is determined and displayed to the operator during the controlling of the zoom system.

23. The arrangement according to claim 13, wherein control units are used for motorized zoom adjustment and for motorized focusing of the microscope.

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